

Construction Engineers Conference 2006



Contract Administration I

Topics covered in Contract Administration I will focus on core administrative duties within the Resident Engineer's office. Topics such as Preconstruction Conferences, Lines of Communication, Utilities Conflict Resolution, Project Scheduling, Submittal Tracking, Project Records and RE Records Audit will be discussed in detail with supporting documentation for future reference. All Assistant Resident Engineers are encouraged to attend.

Project Highlights

Three projects will be highlighted for their successful completion, innovations, and partnering efforts with Industry and environmental agencies. This is an opportunity for the Divisions to showcase their successes and explain their experiences in administering these projects. The projects selected for 2006 are: NC 16 near Waxhaw, I-40 Slide Repair, NC 89 over Dan River and NC 98 (Wake Forest Bypass).

Traffic Control and Work Zone Safety - What's Headed Your Way?

Are you familiar with the Work Zone Final Rulemaking? How about new Personal Protective Safety Equipment requirements? Do you know that you can get Enforcement assistance in your Work Zone to help slow down traffic? Join us for open discussion regarding these and other important statewide Work Zone Safety and Traffic Control topics. Learn how FHWA's Final Rulemaking affects the Department and you, as well as how current training, public information and certification efforts can help you deliver your projects more effectively and efficiently.

Structures

The Bridge Construction Engineers will highlight new structure related details and special provisions. Several discussion topics will be presented, but an interactive question and answer session is encouraged. Some of the topics include: crane safety special provision, standard overhang falsework, box beams, concrete overlays, steel diaphragms for concrete girders, cored slab joint details, and the policy for operating heavy equipment on bridge decks.

Pavements

Current issues for both asphalt and concrete pavements will be covered in this session. Topics will include concepts of pavement design, specification updates, density lot determination, limited production procedures, inspecting concrete pavement, and sawing and sealing joints. Concrete maturity testing for opening new pavements traffic will also be demonstrated.

Construction Engineers Conference 2006



Contract Administration II

The Contract Administration II Session will focus on Project Cost Management. Topics such as Overruns, Supplemental Agreements, Claims, Final Inspection/Final Estimate, and Closeout Conferences will be discussed. Memorandums, policies and references will be provided. All Assistant Resident Engineers are encouraged to attend.

Materials

Topics covered in the Materials session will include pre-tested materials and products, Certification programs, Specification changes and new technologies such as: Intelligent Compaction, MIT@ SCAN, and Air Void Analyzer.

Geotechnical Problems and Practical Solutions

The Geotechnical Unit will discuss topics such as: undercut, strength of stabilized subgrade, drilled piers, rock blasting, retaining walls and pile restrike. These topics will be presented with current solutions or status of development/implementation.

Erosion Control

The Roadside Environmental Unit will provide information on the erosion control requirements for Reclamation Plans, statutory change in groundcover requirements and the newly implemented Erosion and Sediment Control Certification Program. Other topics covered will be response for Erosion Control, evolving erosion and sedimentation control processes, tracking rainfall events with doppler radar and NPDES issues.

Construction Stakeout with GPS

The Locations and Surveys Unit will discuss GPS basics and the NC Network RTK, GPS utilization on NCDOT projects (both construction stakeout and machine control); GPS control/calibration issues; and recent project experiences with GPS construction stakeout applications. Subsurface Utility Exploration (SUE) will also be explained along with the accuracy and benefits for project layout.